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COMPUTER SYSTEM LINKED BY USINGINFORMATION IN DATA OBJECTSAbstract of the Disclosure

5 Various improvements to steganographic systems, and applications therefore, are  
disclosed. The improvements include facilitating scale and rotation registration for  
steganographic decoding by use of rotationally symmetric steganographically embedded  
patterns and subliminal digital graticules; improved techniques for decoding without access  
to unencoded originals; improving robustness of steganographic coding in motion pictures  
10 and/or in the presence of lossy compression/decompression; and representing data by  
patterned bit cells whose energy in the spatial domain facilitates decoding registration.  
Applications include enhanced-security financial transactions, counterfeit resistant  
identification cards, fraud deterrent systems for cellular telephony, covert modem channels  
in video transmissions, photo duplication kiosks with automatic copyright detection, and  
15 hotlinked image objects (e.g. with embedded URLs) for use on the internet.

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